



**Curriculum Evaluation**

**Automation and Robotics**

*Certificate of Program Completion (Catalog Year: 2019, Required Hours: 900)*

**Core (720 hours required)**

<i>Industrial Technician (720 hours required)</i>		Hours	Modules	Prerequisite Course Number(s)
IAMT 0000	Automation and Robotics Orientation	0.00	1	
IAMT 1100	Industrial Safety and Workplace Relations	30.00	4	
IAMT 1200	Automation Maintenance Basics	60.00	12	
IAMT 1000	Electronic Fundamentals for Industrial Automation	120.00	7	
IAMT 1301	Industrial Mechanics	120.00	13	
IAMT 1250	Fluid Power Hydraulics	60.00	14	
IAMT 1450	Fluid Power Pneumatics	60.00	15	
IAMT 1600	Electrical Motor Controls	120.00	15	
IAMT 2000	Programmable Logic Controllers I	90.00	12	
IAMT 1150	Lean Manufacturing (Six Sigma)	30.00	5	
WKSK 1500	Job Seeking Skills	30.00	6	

**Emphasis (180 hours required)**

<i>Automation Technician (180 hours required)</i>		Hours	Modules	Prerequisite Course Number(s)
IAMT 1005	Renewable Energy	60.00	4	
IAMT 1105	Building Automation	60.00	7	
IAMT 1500	Electric Motors/Drives	90.00	9	
IAMT 1601	Plumbing for Automation Technology	30.00	3	
IAMT 1750	Automatic Controls Troubleshooting	60.00	5	
IAMT 1850	Electrical Equipment Basics	30.00	5	
IAMT 1901	HVAC Refrigeration	90.00	14	
IAMT 2010	Human Machine Interface (HMI) Programming	90.00	5	
IAMT 2015	Fiber Optic Technician Certification Preparation	60.00	6	
IAMT 2025	Industrial Robotics	90.00	8	
IAMT 2026	UAV/Drone Technology	30.00	4	
IAMT 2030	Semiconductor Devices	120.00	11	IAMT 1000
IAMT 2050	Programmable Logic Controllers II	90.00	11	IAMT 2000
IAMT 2060	Controls Integration	90.00	5	IAMT 1250, IAMT 1450, IAMT 1600, IAMT 2000
IAMT 2070	Building Control Panels	90.00	5	IAMT 1600, IAMT 2000
IAMT 2200	Instrumentation - Process Control	90.00	6	
IAMT 2250	Process Technology Equipment and System Operators	90.00	6	
IAMT 2305	Microcontroller/Microprocessor Programming	60.00	9	
IAMT 2400	Electronics Assembly and Soldering	60.00	9	
IAMT 2915	Final Project	30.00	4	

IAMT 2125	Industrial Networking	90.00	5	
DRFT 1045	Blueprint Reading	30.00	5	
MACH 1003	Machining Introduction	90.00	19	
WELD 1150	Welding for Automation	90.00	4	